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(71) Applicant (for all designated States except US): THE  
GOODYEAR TIRE & RUBBER COMPANY [US/US];  
1144 East Market Street, Akron, OH 44316-0001 (US).

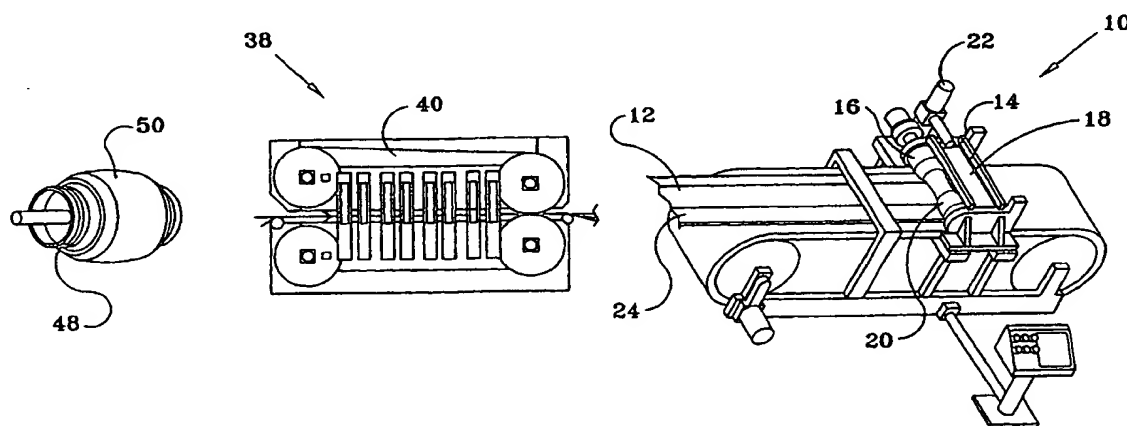
(72) Inventors; and

(75) Inventors/Applicants (for US only): YOVICHIN, Albert,  
James [US/US]; 583 Southampton Court, Copley, OH  
44321 (US). DOWNING, Daniel, Ray [US/US]; 13470  
Inverness Avenue, Uniontown, OH 44685 (US). BENZING,  
James, Alfred, II [US/US]; 1930 Mount Pleasant Street,  
North Canton, OH 44720 (US).(74) Agent: EMERSON, Roger, D.; The Goodyear Tire & Rubber  
Company, c/o Brown, Robert, W., 1144 East Market Street,  
Akron, OH 44316 (US).(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR,  
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(54) Title: HOT FORMING SYSTEM TO PRODUCE PRE-CURED INNERLINERS



## (57) Abstract

Method for providing precured innerliners (50) having a predetermined cross sectional profile for use as part of a pneumatic tire assembly used in a bladder-less shaping and vulcanizing mold. The innerliner (50) is formed from a continuous strip of elastomeric material (12) hot formed using a calender assembly (10) with a profiled calender roller (16). The formed strip is cured "in-line" in a press (38) having a profile matching platen (80) before being wound onto a tire building drum (48). After the pneumatic tire assembly is completed, the assembly is shaped and cured in a bladder-less mold, utilizing the precured innerliner as the impervious inner layer. Initially, the center region (62) of the innerliner is at least twice as thick as the lateral regions (72, 74). In the finished pneumatic tire, the innerliner exhibits a uniform thickness.